



DEPARTMENT OF THE NAVY  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
2000 NAVY PENTAGON  
WASHINGTON, D.C. 20350-2000

IN REPLY REFER TO

OPNAVINST 3501.218B  
N889F4  
12 December 1994

OPNAV INSTRUCTION 3501.218B


From: Chief of Naval Operations

Subj: REQUIRED OPERATIONAL CAPABILITY (ROC) AND PROJECTED  
OPERATIONAL ENVIRONMENT (POE) STATEMENTS FOR HELICOPTER  
ANTI-SUBMARINE SQUADRON LIGHT FOUR ZERO (HSL-40)

Ref: (a) OPNAVINST C3501.2H

Encl: (1) ROC Statement for HSL-40  
(2) POE Statement for HSL-40

1. Purpose. To revise ROC and POE statements for HSL-40.
2. Cancellation. OPNAVINST C3501.218A.
3. Discussion. Enclosures (1) and (2) have been prepared per reference (a). These enclosures describe the primary and secondary warfare mission areas, required operational capabilities and projected operating environment for which HSL-40 was designed and organized.
4. Action. Commanders in Chief are requested to periodically review enclosures (1) and (2). Change recommendations or proposed revisions, conforming to reference (a), should be forwarded to Chief of Naval Operations (N889F) whenever warfare mission areas, operational capabilities, operating conditions or assigned workload change significantly.

  
W. H. ROBERSON  
By direction

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(see page 2)



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**FLEET READINESS SQUADRON (FRS)  
REQUIRED OPERATIONAL CAPABILITIES (ROC)  
FOR  
HELICOPTER ANTISUBMARINE SQUADRON LIGHT  
FOUR ZERO (HSL-40)**

1. Mission. To train pilots and aircrew in the SH-60B to provide maximum readiness in the primary missions of anti-submarine warfare and anti-surface warfare for deployment in aircraft detachments aboard ships.

2. Mission Areas:

<u>CCC</u>	<u>FSO</u>	<u>LOG</u>	<u>MOB</u>	<u>NCO</u>
S	P	S	S	S

3. Operational and sub-operational capabilities:

Degree of  
Capability

a. COMMAND, CONTROL AND COMMUNICATIONS (CCC)

CCC 2 - Coordinate and control the operations of the task organization or functional force to carry out assigned missions.

CCC 2.8	Function as on-scene commander for a Search and Rescue (SAR) operation.	F
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CCC 3 - Provide own unit's command and control functions.

CCC 3.3	Provide all necessary personnel services, programs, and facilities to safeguard classified material and information.	F
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CCC 3.4	Carry out emergency destruction of classified material and equipment rapidly and efficiently.	F
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CCC 3.5	Employ Identification Friend or Foe/ Selective Identification Feature (IFF/SIF) including secure IFF Mode 4.	F
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CCC 6 - Provide communications for own unit.

CCC 6.1	Provide tactical voice communications.	F
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CCC 6.8	Maintain automatic relay communications.	F
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CCC 6.19	Provide tactical, secure voice or data communications.	F
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Enclosure (1)

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b. FLEET SUPPORT OPERATIONS (FSO)

FSO 6 - Support/conduct Search and Rescue (SAR) operations in a combat/noncombat environment.

- |          |   |   |
|----------|---|---|
| FSO 6.1  | Support/conduct combat/noncombat SAR operations by fixed or rotary wing aircraft. (L) Combat SAR over water only. | L |
| FSO 6.4  | Recover man overboard.  | F |
| FSO 6.5  | Support/perform planeguard/lifeguard functions.   | F |
| FSO 6.6  | Conduct search and rescue operations (including operations involving submarine disasters/rescues).                | F |
| FSO 6.7  | Conduct general surveillance.   | F |
| FSO 6.9  | Report situation assessment.  | F |
| FSO 6.10 | Coordinate SAR operations.  | F |
| FSO 6.11 | Conduct multi-unit SAR operations.  | F |

FSO 10 - Provide first aid assistance.

- |          |  |   |
|----------|--|---|
| FSO 10.2 | Train assigned and embarked personnel in first aid, self aid and buddy aid procedures. | F |
|----------|--|---|

FSO 20 - Provide fleet training services.

- |           |  |   |
|-----------|--|---|
| FSO 20.31 | Provide Air Combat Maneuvering/ Defensive Air Combat Maneuvering (ACM/ DACM) classroom and adversary services for fleet and FRS units. | F |
|-----------|--|---|

FSO 21 - Provide familiarization training in fleet operational aircraft for fleet replacement aircrew personnel.

- |          |   |   |
|----------|---|---|
| FSO 21.1 | Conduct ground training in aircraft systems.  | F |
| FSO 21.2 | Conduct ground training in safety precautions and procedures.   | F |
| FSO 21.3 | Conduct Operational Flight Trainer (OFT) and/or in-flight training in aircraft maneuvering characteristics. | F |
| FSO 21.4 | Conduct OFT and/or in-flight training in aircraft emergency procedures.                                     | F |
| FSO 21.5 | Conduct OFT and/or in-flight training in safety precautions and procedures.                                 |   |
| FSO 21.6 | Conduct day/night training in formation   | L |

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- flying techniques. (L) Day, VMC only.  
 FSO 21.7 Conduct training in day/night air-to-air refueling/Helicopter In-Flight Refueling (HIFR) procedures and techniques. F  
 FSO 21.8 Conduct threat characteristics training. F  
 FSO 21.9 Conduct visual recognition training. F
- FSO 22 - Provide training in airborne weapons systems employment to fleet replacement aircrew personnel.
- FSO 22.1 Conduct training in safety and operational aspects of conventional weapons employment. F  
 FSO 22.2 Conduct training in conventional weapons delivery techniques. F  
 FSO 22.11 Conduct training in airborne rescue procedures and techniques. F  
 FSO 22.12 Conduct training in vertical replenishment techniques and procedures. F  
 FSO 22.14 Conduct training in airborne control of aircraft. F  
 FSO 22.15 Conduct training in airborne anti-submarine operations. F  
 FSO 22.16 Conduct training in surface surveillance operations. F
- FSO 23 - Provide fleet operational carrier landing and take-off qualifications to fleet replacement aircrew personnel.
- FSO 23.1 Conduct day carrier qualifications. F  
 FSO 23.2 Conduct night/all-weather carrier qualifications. F  
 FSO 23.3 Provide personnel (aircrews and enlisted) in support of carrier qualification deployments. F  
 FSO 23.4 Conduct day/night field carrier landing practice. F
- FSO 24 - Provide individual aircrew positional training in fleet operational aircraft to fleet replacement aircrew personnel.
- FSO 24.3 Conduct classroom and/or WST training for tactical coordinators. F  
 FSO 24.4 Conduct in-flight training for tactical coordinators. F

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- FSO 24.15 Conduct classroom and/or WST training for ASW acoustic and non-acoustic operators. F
- FSO 24.16 Conduct in-flight training for ASW acoustic and non-acoustic operators. F
- FSO 24.17 Conduct classroom and/or WST training for ESM operators. F
- FSO 24.18 Conduct in-flight training for ESM operators. F
- FSO 24.21 Conduct classroom and/or WST training for Flight Technicians. F
- FSO 24.22 Conduct in-flight training for Flight Technicians. F
  
- FSO 25 - Provide WST and in-flight integrated crew coordination training in fleet operational aircraft to fleet replacement aircrew personnel. F
  
- FSO 26 - Provide instrument training for aviators and Naval Flight Officers (NFOs) in fleet operational aircraft.
  
- FSO 26.1 Conduct classroom training in instrument flight rules and procedures. F
- FSO 26.2 Conduct in-flight training in instrument flight rules and procedures. F
  
- c. LOGISTICS (LOG)
- LOG 6 - Provide airlift of cargo and personnel.
  
- LOG 6.2 Provide vertical replenishment services. F
- LOG 6.5 Provide Medical Evacuation (MEDEVAC) services. F
  
- d. MOBILITY (MOB)
- MOB 2 - Support/provide safe, flyable aircraft for all-weather operations. F
  
- MOB 3 - Prevent and control damage.
  
- MOB 3.3 Maintain security against unfriendly acts. F
  
- MOB 6 - Refuel in the air.
  
- MOB 6.4 Receive fuel in day/night ship-to-air F

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refueling.

MOB 7 - Perform seamanship, airmanship and navigation tasks.

MOB 7.1	Navigate under all conditions of geographic location, weather, and visibility.	F
MOB 7.7	Provide life-boat/raft capacity in accordance with unit's allowance. (L) Raft only, for aircrew and passengers of aircraft.	L
MOB 7.9	Operate day and night and under all weather conditions.	F

MOB 8 - Operate from a ship.

MOB 8.1	Operate from an aircraft carrier.	F
MOB 8.2	Operate from a ship with a helicopter platform.	F
MOB 8.7	Operate from a ship capable of supporting air control activities in support of amphibious operations.	F

MOB 12 - Maintain the health and well-being of the crew.

MOB 12.3	Monitor and/or maintain the environment to ensure the protection of personnel from overexposure to hazardous levels of radiation, temperature, noise, vibration and toxic substances per current instructions.	F
MOB 12.5	Monitor the and well-being of the crew to ensure that habitability is consistent with approved habitability procedures and standards.	F

e. NONCOMBAT OPERATIONS (NCO)

NCO 2 - Provide administrative and supply support for own unit.

NCO 2.1	Provide supply support services.	F
NCO 2.2	Provide clerical services.	F
NCO 2.7	Provide inventory and custodial services.	F
NCO 2.8	Provide personnel for living space maintenance.	F

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- NCO 2.9 Provide personnel for area command security. F
- NCO 2.11 Provide personnel for fuels support. F
- NCO 3 - Provide upkeep and maintenance of own unit.
- NCO 3.1 Provide organizational level maintenance. F
- NCO 3.2 Repair own unit's equipment. F
- NCO 8 - Serve as platform for operational test and evaluation of systems, equipment and tactics.
- NCO 8.1 Provide technical assistance for installed test and evaluation equipment. F
- NCO 8.2 Perform the test and evaluation functions set forth in the appropriate test plans. F
- NCO 8.3 Perform the evaluation functions set forth in the appropriate TACMEMOS. F
- NCO 10 - Provide emergency/disaster assistance.
- NCO 10.4 Provide disaster assistance and evacuation. F
- NCO 12 - Function as model manager for training and programs.
- NCO 12.1 Function as aircraft model manager for U.S. Navy NATOPS Programs. F
- NCO 14 - Function as operational sponsor for development of major aviation training devices. F
- NCO 15 - Conduct and coordinate aviation training for foreign personnel and other DOD organizations as directed.
- NCO 15.2 Conduct and coordinate aviation training for foreign personnel as directed by approved Foreign Military Sales (FMS) programs. F
- NCO 25 - Conduct Marine Environmental Protection.
- NCO 25.2 Report spills to proper authority. F



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- NCO 29 - Provide type commander NATOPS evaluator for duties regarding NATOPS matters as may be directed. F
- NCO 38 - Receive, display and maintain counter narcotic intelligence data. F

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**PROJECTED OPERATIONAL ENVIRONMENT (POE)  
FOR  
HELICOPTER ANTI-SUBMARINE SQUADRON LIGHT FOUR ZERO  
(HSL-40)**

1. Operate a Fleet Replacement Squadron (FRS) from Naval Station Mayport, FL. Provide FRS training in the Anti-Submarine Warfare and Anti-Surface Warfare missions in support of Atlantic Fleet LAMPS MK III squadrons.

2. N/A

3. Primary aircraft authorized (PAA):

MODEL	NUMBER BY FISCAL YEAR				
AIRCRAFT	<u>FY-95</u>	<u>FY-96</u>	<u>FY-97</u>	<u>FY-98</u>	<u>FY-99</u>
SH-60B	13	14	14	14	14

Note 1: PAA includes one aircraft assigned on a rotating basis to support maintenance training (PJT) not available for FRP/FRAC syllabus flights.

4. Aircraft utilization:

MODEL	UTILIZATION PER MONTH PER AIRCRAFT					SORTIE
AIRCRAFT	<u>FY-95</u>	<u>FY-96</u>	<u>FY-97</u>	<u>FY-98</u>	<u>FY-99</u>	LENGTH
SH-60B	40	37	36	39	39	2.0

5. Navy standard work week for enlisted personnel is per OPNAVINST 1000.16H. Planned 24 hr maintenance day, 16 hr flying day on a 5-day per week basis. Maintenance policy and procedures in accordance with OPNAVINST 4790.2E.

6. Training load:

PILOTS					
CATEGORY	<u>FY-95</u>	<u>FY-96</u>	<u>FY-97</u>	<u>FY-98</u>	<u>FY-99</u>
I	36	45	45	45	45
II	24	22	22	26	26
III	4	4	4	5	4
IV	4	4	4	4	4
V	18	8	7	9	9
TOTAL	86	83	82	89	88

Note 1: Two Foreign Military Sales (FMS) pilots per year are included in the Category IV pilot training load.

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AIRCREW

CATEGORY	<u>FY-95</u>	<u>FY-96</u>	<u>FY-97</u>	<u>FY-98</u>	<u>FY-99</u>
I	35	35	35	35	38
II	0	6	6	12	12
III	0	0	0	0	0
V	<u>12</u>	<u>12</u>	<u>12</u>	<u>10</u>	<u>10</u>
TOTAL	47	53	53	57	60

7. Readiness Training Summary:

a. (U) SH-60B hours

<u>STUDENT</u> <u>CATEGORY</u>	<u>SYLLABUS</u> <u>HOURS</u>	<u>AIRCRAFT</u> <u>HOURS</u>
FRP I	58	76
FRP II	44	58
FRP III	24	32
FRP IV	18	24
FRP V	48	63
FRAC I	30	5
FRAC II	10	5
FRAC III	10	5
FRAC V	30	5

Note 1: Aircraft hours are based on syllabus hours plus 30 percent overhead hours utilized in support of the CNO-approved flight syllabus. Overhead hours include aborts, instructor under training (IUT) syllabus, ferry, functional check flights, service, logistic and standardization flights.

Note 2: There are on average, four FRAC flight hours which cannot be accomplished simultaneously with replacement pilot syllabus flights. These hours are irrespective of FRAC category and therefore apply to all FRAC training requirements.

b. N/A

c. Total aircraft hours required:

<u>STUDENT</u> <u>CATEGORY</u>	<u>TOTAL</u>	<u>AIRCRAFT HOURS</u>				
	<u>FY-95</u>	<u>FY-96</u>	<u>FY-97</u>	<u>FY-98</u>	<u>FY-99</u>	
FRP I	2736	3344	3344	3344	3344	
FRP II	1392	1276	1276	1508	1508	
FRP III	128	128	128	160	128	
FRP IV	96	96	96	96	96	
FRP V	1134	504	441	567	567	
FRAC I	175	175	175	175	190	
FRAC II	0	15	30	60	60	
FRAC III	0	0	0	0	0	
FRAC V	<u>60</u>	<u>75</u>	<u>60</u>	<u>50</u>	<u>50</u>	
TOTAL	5721	5689	5626	6036	6019	

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## 8. Trainers/Simulators Assigned; Device

Device	CAT	Sorties	Hours	Total Training Hours				
				FY-95	FY-96	FY-97	FY-98	FY-99
2F135	FRP I	17	25.5	918	1122	1122	1122	1122
SH-60B	FRP II	11	16.5	396	363	363	429	429
OFT	FRP III	11	22.0	88	88	88	110	88
	FRP IV	21	42.0	168	168	168	168	168
	FRP V	17	25.5	459	204	179	230	230
	IUT	3	10.5	84	84	84	84	84
	FMS			72	72	72	72	72
	TOTALS			2185	2101	2076	2215	2193

Device	CAT	Sorties	Hours	Total Training Hours				
				FY-95	FY-96	FY-97	FY-98	FY-99
14B51	FRP I	15	22.5	810	990	990	990	990
SH-60B	FRP II	3	4.5	108	99	99	117	117
WTT	FRP III	7	14.0	56	56	56	70	56
	FRP IV	2	4.6	19	19	19	19	19
	FRP V	15	22.5	405	180	158	203	203
	IUT	3	12.0	96	96	96	96	96
	FRAC I	21	32.5	1138	1138	1138	1138	1235
	FRAC II	21	32.5	0	98	195	390	390
	FRAC III	7	11.5	0	0	0	0	0
	FRAC V	21	32.5	390	488	390	325	325
	IUT	10	20.0	160	160	160	160	160
	FMS			104	104	104	104	104
	TOTALS			3286	3428	3405	3612	3695

Note 1: FMS hours listed for the 2F135 and 14B51 are in addition to those required to support the FMS pilot training requirements listed in paragraph 7 above.

Device	CAT	Sorties	Hours	Total Training Hours				
				FY-95	FY-96	FY-97	FY-98	FY-99
2F135	FRP I	11	22.0	792	968	968	968	968
SH-60B	FRP II	3	6.0	144	132	132	156	156
WST	FRP III	7	4.0	16	16	16	20	16
	FRP IV	0	0.0	0	0	0	0	0
	FRP V	11	22.0	396	176	154	198	198
	IUT	1	4.0	32	32	32	32	32
	FRAC I	11	22.0	770	770	770	770	836
	FRAC II	11	22.0	0	66	132	264	264
	FRAC III	2	4.0	0	0	0	0	0
	FRAC V	11	22.0	264	330	264	220	220
	IUT	3	6.0	48	48	48	48	48
	TOTALS			2462	2538	2516	2676	2738

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Device	CAT	Sorties	Hours	Total Training Hours				
				FY-95	FY-96	FY-97	FY-98	FY-99
DEAD	FRP I	3	6.0	216	264	264	264	264
LOAD	FRP II	0	0.0	0	0	0	0	0
TRAINER	FRP III	0	0.0	0	0	0	0	0
	FRP IV	0	0.0	0	0	0	0	0
	FRP V	3	6.0	108	48	42	54	54
	IUT	0	0.0	0	0	0	0	0
TOTALS				324	312	306	318	318

Device	CAT	Sorties	Hours	Total Training Hours				
				FY-95	FY-96	FY-97	FY-98	FY-99
RAST	FRP I	2	4.0	144	176	176	176	176
PART	FRP II	2	4.0	96	88	88	104	104
TASK	FRP III	2	4.0	16	16	16	20	16
TRAINER	FRP IV	0	0.0	0	0	0	0	0
	FRP V	2	4.0	72	32	28	36	36
	IUT	3	7.5	60	60	60	60	60
TOTALS				388	372	368	396	392

9. Additional Manpower Requirements:

a. Provide LAMPS MK III Air Subsystems Fleet Project Team members: Two officers, LT, 131X, two enlisted, AW2, 7873. Ref: OPNAVINST 5000.50A.

b. Provide conventional weapons Technical Training Team support for fleet squadrons. Conduct safety inspections, initial conventional weapons training and recertification training for 27 fleet ordnance loading teams per year.

c. Provide Fleet HSL Squadron personnel intelligence training, predeployment briefing and examinations. Maintain and operate an NWP library/intelligence office 16 hours a day for FRS student and fleet use. One officer, ENS, 1630, one enlisted, IS2, 3290 and one SN, 0000. Ref: COMHSLWINGLANTINST C3500.1B.

d. Function as NATOPS Model Manager for SH-60B aircraft. One officer, LT, 131X, one enlisted, AWC, 7873. Ref: NAVTACSUPACT ltr 3710 Ser 60A/125 of 3 Feb 86 (NOTAL).

e. Provide COMNAVAIRLANT SH-60B NATOPS evaluation unit. One officer, LT, 131X, one Enlisted, AW1, 7873. REF: COMNAVAIRLANTINST 3510.54.

f. Maintain custody of up to two additional SH-60B helicopters awaiting reassignment as directed by higher authority. Conduct acceptance/transfer inspections as required, perform phase maintenance, comply with TDC's and perform functional check flights (6 hours/month/aircraft) as required and

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maintain aircraft Full Systems Capable (FSC).

g. Maintain and operate an Instructional Systems Development Learning Center and library 16 hours per day, 5 days a week for FRS student materials/test issue.

h. Manage a pro-active NAVOSH Program, to include training, evaluation and inspection. Maintain current information on all NAVOSH related areas, including hazardous materials, workspace practices and OSHA Regulations.

i. Provide instructor pilots for Aircrew Coordination Training Course.

j. Provide 3-day Helicopter Instrument Ground Training School (HITS) for Mayport-based helicopter pilots. Course to be taught approximately 24 times per year.

k. Provide 24 hours per day, 7 days per week building security and access control for personnel to Training facility.

l. Provide LANTFLT LAMPS MK III detachment pilots and aircrew Hostile Environment Training (HET) course, a 2-day course taught 12 times per year.

m. Provide FMS training for aircrew and maintenance personnel.

n. Provide LSE training to fleet LAMPS MK II detachment and Mayport based ship's company personnel. Five-day course taught 12 times per year.

o. Provide Aviation Department Head School/Det OIC training for all CAT II and CAT V FRP's. Two officers, LCDR, 131X part time. Ref: CNO 201346Z SEP 93.

p. Augment Naval Station Mayport Security Force. Two enlisted, E4, full time. Ref: SOPAMYPTINST 5440.3E.

q. Provided CPR training for all aircrew and required maintenance personnel.

r. Operate a 24-hour per day Pre-Expend Bin to serve all five Mayport based SH-60B squadrons.

s. Provide transition training for fleet squadron personnel transitioning from SH-60B BLK 0 to SH-60B BLK I.

t. Provide support for COMHSLWINGLANT LAMPS MK III TAC D&E Project Team.